Serial No. 09/996,276

2.

AMENDMENTS TO THE CLAIMS:

- (Currently Amended) A method for the automatic configuration of a bi-directional 1. 1 Internet Protocol (IP) communication device, comprising: broadcasting a request for basic configuration details for the IP 3 communication device, where said request contains a unique bi-directional IP 4 communication device identifier associated with a unique user; 5 receiving said basic configuration details from a server, where 6 said basic configuration details are assigned to said unique user based 7 on said unique bi-directional IP communication device identifier; and 8 configuring said bi-directional IP communication device with 9 said basic configuration details. 10
- 1 2. (Original) The method of claim 1, wherein said broadcasting further comprises
- 2 broadcasting said request for basic configuration details, including an IP
- 3 address, to a Dynamic Host Configuration Protocol (DHCP) server, where
- 4 said bi-directional IP communication device is a Digital Subscriber Line (DSL)
- 5 gateway.
- 1 3. (Original)The method of claim 2, wherein said receiving comprises obtaining an 2 IP address from said DHCP server.
- 1 4. (Original) The method of claim 1, further comprising transmitting a configuration 2 request for additional configuration details.
- 5. (Original)The method of claim 4, further comprising receiving said additional configuration details specific to said unique user.
- 1 6. (Original)The method of claim 5, further comprising configuring said bi-2 directional IP communication device with said additional configuration details.
- 1 7. (Original)The method of claim 1, further comprising, before said broadcasting 2 step, the steps of:

 connecting said bi-directional IP communication device to an analog

4 telephone line; and

- 5 powering said bi-directional IP communication device on.
- 1 8. (Original)The method of claim 1, further comprising, before said broadcasting 2 step, the step of automatically detecting a DSL communication circuit.
- 1 9. (Original) The method of claim 1, further comprising, before said broadcasting
- 2 step, the step of automatically determining Permanent Virtual Circuit (PVC)
- 3 details for communications between said bi-directional IP communication
- 4 device and a communications network.

Serial No. 09/996,276

13

14

3.

(Original)The method of claim 9, wherein said determining comprises the step of 10. ascertaining a VPINCI (Virtual Path Identifier/Virtual Channel Identifier) pair 2 for said communications. (Original)The method of claim 1, wherein said broadcasting comprises 1 11. broadcasting a DHCP Discover request. (Original)The method of claim 1, wherein said receiving comprises acquiring a 1 DHCP Offer message from a DHCP server. 2 (Currently Amended) The method of claim 1, further comprising, prior to said 13. configuring step, the steps of: 2 sending a DHCP Request message to said a DHCP server; and 3 receiving a DHCP acknowledge message from said DHCP server. 4 (Original)The method of claim 1, wherein said broadcasting and receiving steps 1 14. occur automatically without any communication between said bi-directional IP communication device and a client computer coupled to said bi-directional IP communication device. (Original)The method of claim 1, further comprising, prior to said configuring 1 step, the steps of: 2 assigning said unique bi-directional IP communication device 3 identifier to said bi-directional IP communication device; and 4 associating said unique bi-directional IP communication device 5 identifier with said unique user. 6 (Original)The method of claim 15, further comprising generating a configuration 1 table listing bi-directional-IP communication device identifiers and associated 2 users. (Currently Amended)A bi-directional IP communication device, comprising: 17. 1 a Central Processing Unit (CPU); 2 communication circuitry; 3 input/output ports; and 4 a memory containing: 5 a unique bi-directional IP communication device 6 7 identifier: instructions for broadcasting a request for basic 8 configuration details for the IP communication device, where said request 9 contains a unique bi-directional IP communication device identifier 10 associated with a unique user; 11 instructions for receiving said basic configuration details 12

from a server, where said basic configuration details is assigned

to said unique user based on said unique bi-directional IP

4.

Serial No. 09/996,276

15	communication device identifier; and
16	instructions for configuring said bi-directional IP
17	communication device with said basic configuration details.
17	
	18. (Original)The bi-directional IP communication device of claim 17, wherein said
-	. A language of the comprise instructions for Divaugating paid to devel
3	for basic configuration details, including an it address, to a Dynamication device is a Digital Protocol (DHCP) server, where said bi-directional IP communication device is a Digital
4	Protocol (Drich) server, where said by discontinuous
5	Subscriber Line (DSL) gateway.
	19. (Currently Amended) A computer program product for use in conjunction with a
1	19. (Currently Amended) A computer program product for use in conjunctional Internet Protocol (IP) computer system for the automatic configuration of a bi-directional Internet Protocol (IP)
2	computer system for the automatic computer program product comprising a computer communication device, the computer program product comprising a computer
3	communication device, the computer program product somputer
4	readable storage and a computer program stored therein, the computer
5	program comprising: instructions for broadcasting a request for basic
6	configuration details for the IP communication device, where said request
7	contains a unique hi-directional IP communication device identifier
8	associated with a unique user;
9	- Common and begin configuration details
10	from a server, where said basic configuration details is assigned
11	hi directional IP
12	
13	
14	· · · · · · · · · · · · · · · · · · ·
15	Confinitioscion device with ante paste posts
	20. (Original)The computer program product of claim 19, wherein said instructions
1	20. (Original)The computer program product of claim 19, wherein said mandon for broadcasting further comprise instructions for broadcasting said request
2	for basic configuration details, including an IP address, to a Dynamic Host
3	Configuration Protocol (DHCP) server, where said bi-directional IP
4	communication device is a Digital Subscriber Line (DSL) gateway.
5	communication device is a Digital paparities.
	21. (New) The method of claim 11, wherein a configuration table listing device
1	identifiers, their associated users, and each user's basic configuration details is stored in
2	
3	the server.
1	22. (New) A method for the automatic configuration of a bi-directional Internet
1.	Protocol (IP) communication device, comprising:
2	connecting a hi-directional Internet Protocol (IP) communication device to
3	a network, said device having a unique device identifier that is associated at a
4 5	server with a unique user prior to connection;
5 6	broadcasting a request for basic configuration details for the IP
Ö	communication device over the network to the server, where said request

receiving said basic configuration details from the server, where

said basic configuration details for the IP communication device are assigned to

contains the unique device identifier;

8

9

10

Serial No. 09/996,276

5.

- said unique user based on said unique device identifier; and configuring said IP communication device with said basic configuration
- 13 details.
- 1 23. (New) The method of claim 22, wherein a configuration table listing device
- 2 identifiers, their associated users, and each user's basic configuration details is stored in
- 3 the server.
- 1 24. (New) The method of claim 22, wherein said basic configuration details for the IP
- 2 communication device include an IP address.
- 1 25. (New) The method of claim 22, further comprising, before said broadcasting
- 2 step, the step of automatically detecting a dial-tone for the internet protocol.
- 1 26. (New) A method for the automatic configuration of a bi-directional Internet
- 2 Protocol (IP) communication device, comprising:
- providing a bi-directional Internet Protocol (IP) communication device having a unique device identifier;
- associating the device identifier with a user identifier for a unique user of the IP communication device;
- 7 providing the IP communication device to the unique user;
- providing the device identifier and the user identifier to an internet service provider (ISP);
- generating a configuration table listing device identifiers, their associated users,
- 11 and each user's basic configuration details;
- storing the configuration table in a server;
- connecting the IP communication device to a network at a user site;
- broadcasting a request for basic configuration details for the IP communication
- 15 device to the server over the network, where said request contains the unique device
- identifier;
 identifying the user's basic configuration details in the configuration table from
- the device identifier;
 transmitting the basic configuration details to the user site IP communications
- 20 device;
 receiving said basic configuration details from the server; and
- configuring said IP communication device with said basic configuration details.
- 1 27. (New)The method of claim 26, further comprising, before said broadcasting
- 2 step, the step of automatically detecting a dial-tone for the internet protocol.